



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Wakayama *et al.*

Appl. No. 09/995,695

Filed: November 29, 2001

For: **Integrated Direct Conversion
Satellite Tuner**

Confirmation No.: 9797

Art Unit: ~~2817~~ 2643

Examiner: (to be assigned)

Atty. Docket: 1875.1210001

**Request To Correct Inventorship In A Nonprovisional Patent
Application Under 37 C.F.R. § 1.48(a)(1)**

Commissioner for Patents
Washington, D.C. 20231

Sir:

Applicants request that the United States Patent and Trademark Office correct inventorship in the above-captioned nonprovisional patent application for which an oath or declaration has already been filed. Specifically, Applicants request that the Office change the inventorship in this application from:

- (1) Myles Wakayama;
- (2) Dana Vincent Laub;
- (3) Frank Carr;
- (4) Afshin Mellati;
- (5) David S. P. Ho;
- (6) Hsiang-Bin Lee;
- (7) Chun-Ying Chen;
- (8) James Y. C. Chang;
- (9) Lawrence M. Burns;
- (10) Young Joon Shin;
- (11) Patrick Pai;
- (12) Iconomos A. Koullias;
- (13) Ron Lipka; and
- (14) Luke Thomas Steigerwald

to:

- (1) Myles Wakayama;
- (2) Dana Vincent Laub;

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- (3) Frank Carr;
- (4) Afshin Mellati;
- (5) David S. P. Ho;
- (6) Hsiang-Bin Lee;
- (7) Chun-Ying Chen;
- (8) James Y. C. Chang;
- (9) Lawrence M. Burns;
- (10) Young Joon Shin;
- (11) Patrick Pai;
- (12) Iconomos A. Koullias;
- (13) Ron Lipka;
- (14) Luke Thomas Steigerwald; and
- (15) Alexandre Kral

This request is accompanied by:

- (1) A statement from each person to be added as an inventor, and/or each person to be deleted as an inventor, stating that the error in inventorship was made without deceptive intent on his or her part;
- (2) An oath or declaration by the actual inventor or inventors as required by 37 C.F.R. § 1.63 or as permitted by 37 C.F.R. §§ 1.42, 1.43 or 1.47;
- (3) The written consent of the assignee of the originally named inventors;
- (4) A Certificate under 37 C.F.R. § 3.73(b) executed by the assignee named in part (3); and
- (5) The processing fee as set forth under 37 C.F.R. § 1.17(i), in the amount of \$ 130.00.

Applicants hereby authorize the U.S. Patent and Trademark Office to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

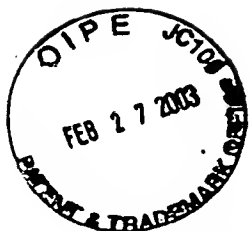


Jeffrey T. Helvey
Attorney for Applicants
Registration No. 44,757

Date: 2/27/03

1100 New York Avenue, N.W.
Suite 600
Washington, D.C. 20005-3934
(202) 371-2600

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SKGF Rev. 12/18/02 mac



Declaration for Patent Application

Docket Number: 1875.1210001/RES/JTH

As a below named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed and for which a patent is sought on the invention entitled: Integrated Direct Conversion Satellite Tuner,

the specification of which is attached hereto unless the following box is checked:

- ☒ was filed on November 29, 2001 ;
as United States Application Number or PCT International Application Number 09/995,695 ; and
was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56, including for continuation-in-part applications, material information that became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or (f), or § 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or § 365(a) of any PCT international application, which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Claimed

_____ (Application No.)	_____ (Country)	_____ (Day/Month/Year Filed)
_____ (Application No.)	_____ (Country)	_____ (Day/Month/Year Filed)

☐ Yes ☐ No

☐ Yes ☐ No

Send Correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 New York Avenue, N.W.
Suite 600
Washington, D.C. 20005-3934

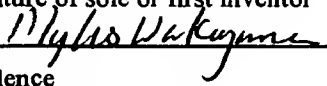
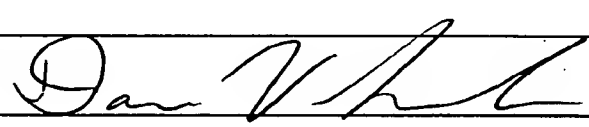
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(202) 371-2600

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

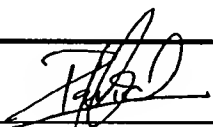
Full name of sole or first inventor Myles Wakayama	
Signature of sole or first inventor 	Date 16 JAN 2002
Residence Laguna Niguel, CA	
Citizenship United States	
Mailing Address 16 Windham Lane, Laguna Niguel, CA 92677	
Full name of second inventor Dana Vincent Laub	
Signature of second inventor 	Date 1-15-02
Residence Irvine, CA	
Citizenship United States	
Mailing Address 14 Rhode Island, Irvine, CA 92606	
Full name of third inventor Frank Carr	
Signature of third inventor	Date
Residence Newport Beach, CA	
Citizenship Britain	
Mailing Address 3423 Colony Plaza, Newport Beach, CA 92660	


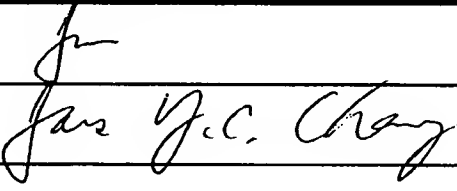

Appl. No. 09/995,695
Docket No. 1875.1210001/RES/JTH

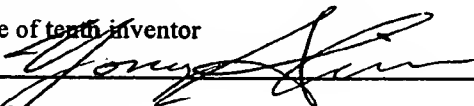
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

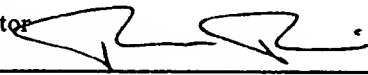
Full name of sole or first inventor Myles Wakayama	
Signature of sole or first inventor	Date
Residence Laguna Niguel, CA	
Citizenship United States	
Mailing Address 16 Windham Lane, Laguna Niguel, CA 92677	
Full name of second inventor Dana Vincent Laub	
Signature of second inventor	Date
Residence Irvine, CA	
Citizenship United States	
Mailing Address 14 Rhode Island, Irvine, CA 92606	
Full name of third inventor Frank Carr	
Signature of third inventor <i>[Handwritten Signature]</i>	Date 9/20/02
Residence Newport Beach, CA	
Citizenship Britain	
Mailing Address 4251-G Martingale Way, Newport Beach, CA 92660	


Full name of fourth inventor Afshin Mellati	
Signature of fourth inventor 	Date 1/16/2002
Residence Aliso Viejo, CA	
Citizenship Iranian	
Mailing Address 4 Barcelona, Aliso Viejo, CA 92656	
Full name of fifth inventor David S. P. Ho	
Signature of fifth inventor	Date
Residence Singapore	
Citizenship Malaysia	
Mailing Address 30 Bayshore Road, #19-08 Singapore 469974	
Full name of sixth inventor Hsiang-Bin Lee	
Signature of sixth inventor 	Date 1/15/2002
Residence Irvine, CA	
Citizenship Taiwan, ROC	
Mailing Address 284 Portico Aisle, Irvine, CA 92606	

Full name of fourth inventor Afshin Mellati	
Signature of fourth inventor	Date
Residence Aliso Viejo, CA	
Citizenship Iranian	
Mailing Address 4 Barcelona, Aliso Viejo, CA 92656	
Full name of fifth inventor David S. P. Ho	
Signature of fifth inventor 	Date 6 Feb 2002
Residence Singapore	
Citizenship Malaysia	
Mailing Address 30 Bayshore Road, #19-08 Singapore 469974	
Full name of sixth inventor Hsiang-Bin Lee	
Signature of sixth inventor	Date
Residence Irvine, CA	
Citizenship Taiwan, ROC	
Mailing Address 284 Portico Aisle, Irvine, CA 92606	

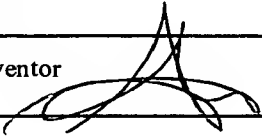
Full name of seventh inventor Chun-Ying Chen	
Signature of seventh inventor 	Date 1/15/2002
Residence Irvine, CA	
Citizenship Taiwan, ROC	
Mailing Address 15 Ashford, Irvine, CA 92618	
Full name of eighth inventor James Y. C. Chang	
Signature of eighth inventor 	Date 1/15/2002
Residence Irvine, CA	
Citizenship Taiwan, ROC	
Mailing Address 1143 Taft Street, Irvine, CA 92620	
Full name of ninth inventor Lawrence M. Burns	
Signature of ninth inventor 	Date 1/16/02
Residence Laguna Hills, CA	
Citizenship United States	
Mailing Address 26062 Talega Avenue, Laguna Hills, CA 92653	

Full name of tenth inventor Young Joon Shin	1/28/02
Signature of tenth inventor 	Date
Residence Irvine, CA	
Citizenship Republic of Korea	
Mailing Address 469 Santa Barbara, Irvine, CA 92606	
Full name of eleventh inventor Patrick Pai	
Signature of eleventh inventor	Date
Residence	
Citizenship	
Mailing Address	
Full name of twelfth inventor Iconomos A. Koullias	
Signature of twelfth inventor	Date
Residence Reading, PA	
Citizenship United States	
Mailing Address 2913 Windmill Road, Suite 11, Reading, PA 19608	

Full name of tenth inventor Young Joon Shin	
Signature of tenth inventor	Date
Residence Irvine, CA	
Citizenship Republic of Korea	
Mailing Address 469 Santa Barbara, Irvine, CA 92606	
Full name of eleventh inventor Patrick Pai	
Signature of eleventh inventor 	Date 2/28/02
Residence Honolulu, HI	
Citizenship UNITED STATES	
Mailing Address 801 S. King Street, #3507, Honolulu, HI 96813	
Full name of twelfth inventor Iconomos A. Koullias	
Signature of twelfth inventor	Date
Residence Reading, PA	
Citizenship United States	
Mailing Address 2913 Windmill Road, Suite 11, Reading, PA 19608	

Full name of tenth inventor Young Joon Shin	
Signature of tenth inventor	Date
Residence Irvine, CA	
Citizenship Republic of Korea	
Mailing Address 469 Santa Barbara, Irvine, CA 92606	
Full name of eleventh inventor Patrick Pai	
Signature of eleventh inventor	Date
Residence	
Citizenship	
Mailing Address	
Full name of twelfth inventor Iconomos A. Koullias	
Signature of twelfth inventor 	Date 1/31/02
Residence Reading, PA	
Citizenship United States	
Mailing Address 2913 Windmill Road, Suite 11, Reading, PA 19608	

Full name of thirteenth inventor Ron Lipka	
Signature of thirteenth inventor <i>Ronald J. Lipka</i>	Date 1/23/02
Residence Sinking Spring, PA	
Citizenship United States	
Mailing Address 7 Meadow Court, Sinking Spring, PA 19608	
Full name of fourteenth inventor Luke Thomas Steigerwald	
Signature of fourteenth inventor <i>Luke Steigerwald</i>	Date 1/23/02
Residence Sinking Spring, PA	
Citizenship United States	
Mailing Address 413 Merion Drive, Sinking Spring, PA 19608	

Full name of thirteenth inventor Ron Lipka	
Signature of thirteenth inventor	Date
Residence Sinking Spring, PA	
Citizenship United States	
Mailing Address 7 Meadow Court, Sinking Spring, PA 19608	
Full name of fourteenth inventor Luke Thomas Steigerwald	
Signature of fourteenth inventor	Date
Residence Sinking Spring, PA	
Citizenship United States	
Mailing Address 413 Merion Drive, Sinking Spring, PA 19608	
Full name of fifteenth inventor Alexandre Kral	
Signature of fifteenth inventor 	Date NOV 28 TH , 2002
Residence Laguna Niguel, CA	
Citizenship Belgium	
Mailing Address 27861 Isela Court, Laguna-Niguel, CA 92677	

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Wakayama *et al.*

Appl. No. 09/995,695

Filed: November 29, 2001

For: Integrated Direct Conversion
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Confirmation No.: 9797

Art Unit: 2817

Examiner: (to be assigned)

Atty. Docket: 1875.1210001

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TECHNOLOGY CENTER 2800Statement under 37 C.F.R. § 1.48(a)(2) of A Person
To Be Added Or Deleted As An InventorCommissioner for Patents
Washington, D.C. 20231

Sir:

I am a coinventor of the invention of one or more claims in the above-captioned nonprovisional application for which an oath or declaration under 37 C.F.R. § 1.63 has been filed erroneously not naming me as an inventor. The inventorship error occurred without deceptive intent on my part. I have read and understand 37 C.F.R. § 10.18(b).

Signed: 

Alexandre Kral

Date: 2-27-2003

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Wakayama *et al.*

Appl. No. 09/995,695

Filed: November 29, 2001

For: **Integrated Direct Conversion
Satellite Tuner**

Confirmation No.: 9797

Art Unit: 2817

Examiner: (to be assigned)

Atty. Docket: 1875.1210001

Consent of the Assignee under 37 C.F.R. § 1.48(a)(5)Commissioner for Patents
Washington, D.C. 20231

Sir:

Broadcom Corporation, assignee of the entire right, title and interest of the originally
named inventors of the above-captioned application, consents to the change in inventorship
from:

- (1) Myles Wakayama;
- (2) Dana Vincent Laub;
- (3) Frank Carr;
- (4) Afshin Mellati;
- (5) David S. P. Ho;
- (6) Hsiang-Bin Lee;
- (7) Chun-Ying Chen;
- (8) James Y. C. Chang;
- (9) Lawrence M. Burns;
- (10) Young Joon Shin;
- (11) Patrick Pai;
- (12) Iconomos A. Koullias;
- (13) Ron Lipka; and
- (14) Luke Thomas Steigerwald

to:

- (1) Myles Wakayama;
- (2) Dana Vincent Laub;
- (3) Frank Carr;
- (4) Afshin Mellati;
- (5) David S. P. Ho;

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Wakayama *et al.*
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- (6) Hsiang-Bin Lee;
- (7) Chun-Ying Chen;
- (8) James Y. C. Chang;
- (9) Lawrence M. Burns;
- (10) Young Joon Shin;
- (11) Patrick Pai;
- (12) Iconomos A. Koullias;
- (13) Ron Lipka;
- (14) Luke Thomas Steigerwald; and
- (15) Alexandre Kral

I have read and understand 37 C.F.R. § 10.18(b).

For: Broadcom Corporation

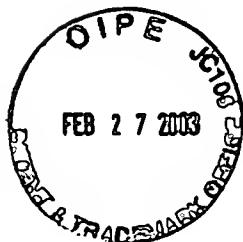
Signature: 

Type or Print Name: _____

William J. Ruehle

Title: Vice President and Chief Financial Officer

Date: February 27, 2003



Certificate Under 37 C.F.R. § 3.73(b)

Applicants: Wakayama et al.

Application No.: 09/995,695

Filed: November 29, 2001

Entitled: Integrated Direct Conversion Satellite Tuner

Broadcom Corporation

(Name of Assignee)

is

corporation

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest, or
2. ☐ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

- A. ☐ An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

Date: February 27, 2003

Name: William J. Ruehle

Title: Vice President and Chief Financial Officer

Signature: [Signature]

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ASSIGNMENT

DO NOT FORWARD
TO ASSIGNMENT BRANCH
NOT FOR RECORDATION

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: (1) Myles Wakayama, (2) Dana Vincent Laub, (3) Frank Carr, (4) Afshin Mellati, (5) David S. P. Ho, (6) Hsiang Bin Lee, (7) Chun-Ying Chen, (8) James Y. C. Chang, (9) Lawrence M. Burns, (10) Young Joon Shin, (11) Patrick Pai, (12) Iconomos A. Koullias, (13) Ron Lipka, (14) Luke Thomas Steigerwald, the undersigned inventors hereby sell and assign to Broadcom Corporation (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),
☒ and throughout the world,

(a) in the invention known as Integrated Direct Conversion Satellite Tuner for which application(s) for patent in the United States of America has (have) been executed by the undersigned on (1) 1/16/02, (2) 1-15-02, (3) 1/16/2002, (4) 2/6/02, (5) 1/15/2002, (6) 1-15-02, (7) 1/15/2002, (8) 1/16/02, (9) 2/1/02, (10) 2/28/02, (11) 1/31/02, (12) 1/23/02, (13) 1/23/02, (14) 1/23/02, (also known as United States Application No. 09/995,695, filed November 29, 2001), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

RES
4/11/02

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

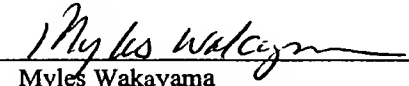
The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.


The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; John M. Covert, Esquire, Registration No. 38,759; Linda E. Alcorn, Esquire, Registration No. 39,588; Lawrence B. Bugaisky, Esquire, Registration No. 35,086; Donald J. Featherstone, Esquire, Registration No. 33,876; and Robert C. Millonig, Esquire, Registration No. 34,395, all of STERNE,KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, and James D. Bennett, Registration No. 37,550, and David J. Rosmann, Registration. No. 43,059, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

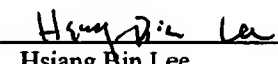
Date: 1/16/2002 Signature of Inventor: 
Myles Wakayama

Date: 1-15-02 Signature of Inventor: 
Dana Vincent Laub

Date: _____ Signature of Inventor: _____
Frank Carr

Date: 1/16/2002 Signature of Inventor: 
Afshin Mellati

Date: _____ Signature of Inventor: _____
David S. P. Ho

Date: 1/15/2002 Signature of Inventor: 
Hsiang Bin Lee

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; John M. Covert, Esquire, Registration No. 38,759; Linda E. Alcorn, Esquire, Registration No. 39,588; Lawrence B. Bugaisky, Esquire, Registration No. 35,086; Donald J. Featherstone, Esquire, Registration No. 33,876; and Robert C. Millonig, Esquire, Registration No. 34,395, all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, and James D. Bennett, Registration No. 37,550, and David J. Rosmann, Registration No. 43,059, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: _____ Signature of Inventor: _____
Myles Wakayama


Date: _____ Signature of Inventor: _____
Dana Vincent Laub

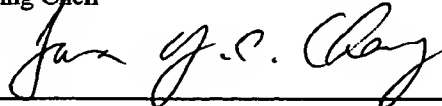
Date: _____ Signature of Inventor: _____
Frank Carr


Date: _____ Signature of Inventor: _____
Afshin Mollati

Date: 6 Feb 2002 Signature of Inventor: _____
David S. P. Ho

Date: _____ Signature of Inventor: _____
Hsiang Bin Lee

Date: 1/15/2002 Signature of Inventor: 
Chun-Ying Chen

Date: 1/15/2002 Signature of Inventor: 
James Y. C. Chang

Date: 1/16/02 Signature of Inventor: 
Lawrence M. Burns

Date: _____ Signature of Inventor: _____
Young Joon Shin

Date: _____ Signature of Inventor: _____
Patrick Pai

Date: _____ Signature of Inventor: _____
Iconomos A. Koullias

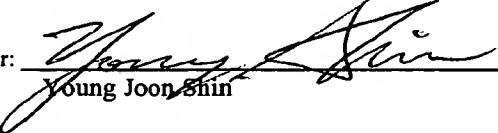
Date: _____ Signature of Inventor: _____
Ron Lipka

Date: _____ Signature of Inventor: _____
Luke Thomas Steigerwald

Date: _____ Signature of Inventor: _____
Chun-Ying Chen

Date: _____ Signature of Inventor: _____
James Y. C. Chang

Date: _____ Signature of Inventor: _____
Lawrence M. Burns

Date: 2/1/02 Signature of Inventor: 
Young Joon Shin

Date: _____ Signature of Inventor: _____
Patrick Pai

Date: _____ Signature of Inventor: _____
Iconomos A. Koullias

Date: _____ Signature of Inventor: _____
Ron Lipka

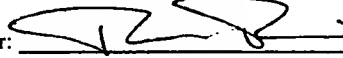
Date: _____ Signature of Inventor: _____
Luke Thomas Steigerwald

Date: _____ Signature of Inventor: _____
Chun-Ying Chen

Date: _____ Signature of Inventor: _____
James Y. C. Chang

Date: _____ Signature of Inventor: _____
Lawrence M. Burns

Date: _____ Signature of Inventor: _____
Young Joon Shin

Date: 2/28/02 Signature of Inventor: 
Patrick Pai

Date: _____ Signature of Inventor: _____
Iconomos A. Koullias

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Ron Lipka

Date: _____ Signature of Inventor: _____
Luke Thomas Steigerwald


Date: _____ Signature of Inventor: _____
Chun-Ying Chen

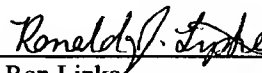
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James Y. C. Chang

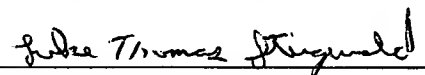
Date: _____ Signature of Inventor: _____
Lawrence M. Burns

Date: _____ Signature of Inventor: _____
Young Joon Shin

Date: _____ Signature of Inventor: _____
Patrick Pai

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Ron Lipka

Date: 1/23/02 Signature of Inventor: 
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